



The picture above, taken in 1971, shows uranium fuel being lowered into U of T's SLOWPOKE reactor. Below is Prof. Robert E. Jervis, chairman of the reactor committee.

SLOWPOKE:

**we own it — but
need better one**

The University of Toronto now owns the SLOWPOKE nuclear reactor, that has been on loan from Atomic Energy of Canada Ltd. (AECL) since 1971. Ownership papers signed recently give the University full financial responsibility for the reactor, which is used primarily as a source of neutrons that render radioactive a variety of materials, some as small as one-billionth of a gram, for analytical purposes.

There is, however, a possibility that SLOWPOKE may be replaced, according to Prof. Robert Jervis, chairman of the SLOWPOKE reactor committee. The U of T is one of six Canadian universities which have simultaneously submitted applications to federal agencies for funds to build SLOWPOKE-2, an improved model that can sustain high power concentrations for longer periods, and which can analyse ten samples simultaneously, compared with two in the present unit.

"We originally thought we might hear in October whether our application had been accepted, but the application has been passed to a different agency, the Atomic Energy Control Board, so a decision may not be made until February or March," says Prof. Jervis.

In its third annual report, the SLOWPOKE reactor committee says that the increased demand for SLOWPOKE time has overtaxed the reactor. The committee fears SLOWPOKE will not be able to meet the University's future needs. SLOWPOKE is currently being used by 30 U of T groups from many different disciplines to detect trace elements of metals and particulate matter in air, water, food, as well as body contaminants.

Prof. Jervis and his colleagues recently used SLOWPOKE to play a significant role in identifying sources of lead pollution in downtown Toronto.



Five-man tenure appeal committee is now ready to begin hearings

The new University Tenure Appeal Committee, the establishment of which the Governing Council approved last June, has now been constituted and is ready to begin its work. The committee takes on the responsibilities for the hearing of tenure appeals that were previously carried out by the President.

Prof. D.F. Shanno, Faculty of Management Studies, is the chairman. The other members are Prof. M.A. Packham, Department of Biochemistry; Prof. L.W. Sumner, Department of Philosophy; Prof. C.B. Macpherson, Department of Political Economy; and Prof. Peter Yates, Department of Chemistry.

Members of the teaching staff who have been denied tenure may appeal such a decision by following the procedures contained in the "Regulations concerning

While food scientists and economists from all over the world this week spell out warnings of starvation and doom at the UN World Food Conference in Rome, Italy, a University of Toronto chemical engineer is quietly making progress with a process that may one day offer a major boost to world supplies of protein livestock food. (In last week's Bulletin, noted geographer Prof. Kenneth Hare warned of disastrous droughts and urged governments everywhere to stockpile grain.)

Prof. Morris Wayman is using natural gas to make feed components for cows and sheep. As another raw material for protein production he uses previously useless wastes from the pulp and paper industry.

He says the nitrogen-rich, white powder (urea formaldehyde) he is making from natural gas could have an impact on agriculture similar to the invention of artificial fertilizer 60 years ago. Cattle and sheep get most of their nitrogen, which they need for the production of protein and amino acids (necessary for life and growth), from grains.

Problem of making it work

The idea of using urea derivatives as a synthetic source of nitrogen is not new, but making it work has provided scientists with problems. Ordinarily large doses of urea are dangerous because urea breaks down quickly in the digestive system and enters the blood stream as toxic ammonia.

However, with funds provided by Canada Packers, Prof. Wayman has modified urea to prolong this breakdown from

appeals against denial of tenure" which have been adopted by the Governing Council. The Tenure Appeal Committee, after hearing evidence and arguments, has the power to dismiss the appeal or, if any of the grounds for denial appear to have been substantiated, may remit the case to a committee to be set up for consideration of the question of tenure. The recommendation of this second tenure committee will not be the subject of further review.

The subject of tenure has long been a matter of controversy between students and staff. Students argued unsuccessfully in Governing Council for the right to serve on tenure committees. Most faculty speaking on the subject were opposed to active student participation, although some would allow students to be observers.

Protein from natural gas may ease food shortage



Prof. Wayman, Ralph Witty, Canada Packers, and urea-fed lamb.

about 30 minutes to about six hours. By doing this he hopes to increase the amount of modified urea in ruminant feed to completely replace protein nitrogen, which would be nearly four times the amount now possible.

Although everything so far is in the test stage, sheep fed small amounts at the Canada Packers Research and Development Laboratories in Toronto are fat and healthy looking. After this initial safety screening has been completed, the new compound will be fed to cows.

We're rapidly losing farmland

Why go to all the trouble of making animal feed components from natural gas? The world's tremendous loss of agricultural land every year is a major reason, says Prof. Wayman. The Ontario Federation of Agriculture, for example, estimates 26 acres of good farm land are taken out of production every hour in Southern Ontario, most of it by urban development.

But diminishing farm land is not the only concern.

"Our aim is to find cheaper and more readily available feed components not dependent on the whims of nature," explains Prof. Wayman. "Modified urea, made in a factory, is not affected by bad climate, unfavourable weather conditions and infestations that plague traditional sources of livestock feed — corn, hay and oats — and ruin many other crops every year."

According to Prof. Wayman, the food shortage problem is more serious than generally believed. "The United Nations' food requirements, says Prof. Wayman, make a map showing global belts of starvation. The scope and continuity is

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Remembrance service at Tower on Monday

The Annual Remembrance Day Service will be held at the Soldiers' Tower, Hart House, at 10.50 a.m. on Monday Nov. 11. The brief service consists of the tolling of the Carillon, the laying of a wreath, a prayer, and the traditional two minutes of silence.

This year, there will be a special exhibition of historical military photographs from the University Archives.

The photographs can be viewed in the Munition Room, Soldiers' Tower, from 10 a.m. until 5 p.m. on Monday and from noon until 5 p.m. for the rest of the week.

School of Continuing Studies lists its principal areas of operation

Now that new, distinct, and separate entities replace the former Division of University Extension's two functions, the School of Continuing Studies has provided a list for the convenience of others at the University, outlining its main operating areas, with an indication of principal involvement of staff members.

Although a complete separation of operation between the School and Woodsworth College was achieved last Jan. 1, staff members of each continue to occupy the same office spaces as before at 119 St. George St.

Director: E. M. Gruetznier (928-2417/8560)

Assistant Director: H.L. Mills (928-2412); Independent Study Program, supervisor of program operation, Ms. I. Kassbaum (2412).

Assistant director, administration, and secretary to the school: L.G. Dutton (2419); Supervisor of program operation, Ms. H.G. Denne (2397).

Information Centre: supervisor, for both Woodsworth College and the School, Ms. C.G. Coombes (2400).

Humanities, Social Sciences, and Professional Updating Courses: W.S. Jevons, program co-ordinator (5236); L.A. Morse, program co-ordinator (7051); Ms. J. Skelhome, assistant program co-ordinator

(5235); Ms. E. Gradosielska, secretary (5236/7051).

Business Courses: M.R. Hecht, program co-ordinator (5084); (cross-appointed to the Faculty of Management Studies); Ms. G.A. Bray, assistant program co-ordinator (2418); M.L. Hazell, secretary (5084).

Engineering Courses: Prof. A.R. Straughan, program co-ordinator (5084/3119), (cross-appointed to the Faculty of Applied Science and Engineering).

English-as-a-Second-Language (ESL) Courses: Prof. C.A. Yorlo, program co-ordinator (6529), (cross-appointed to the Department of Linguistics); Ms. L.J. Fox, secretary (6529).

Forestry Courses: Prof. P.L. Aird, program co-ordinator (8660), (cross-appointed to the Faculty of Forestry).

Accounts: Miss G.F. Pearce (2404);

Duplicating and mailing: K.T. Rourke (2410), for both Woodsworth College and the School.

This information is offered in the hope of facilitating communication with members of the University who might wish to offer to the School of Continuing Studies either comments, requests or enquiries. All are welcome.

Guide to publishing scholarly work

The Humanities Research Council of Canada and the Social Science Research Council of Canada each administers an aid to publications program funded by the Canada Council. The aim of the programs, according to guidelines set forth by the Councils, is to assist the publication of works of advanced scholarly research which are unlikely to be self-supporting. Manuscripts in the following research areas are considered:

(1) Social Sciences: anthropology, economics, political science, geography, history, law, sociology, and education.

(2) Humanities: languages and literatures (ancient and modern), history, philosophy, fine arts, musicology, archaeology, and religious studies.

The program cannot be used to defray the cost of research, typing, or manuscript preparation, but only of actual

producing and marketing the book. Applications for assistance may be made by either authors or prospective publishers.

Among the criteria of eligibility are that the manuscript be of book length, be intended for publication in Canada, and be written by a resident of this country.

Unrevised theses are not normally considered for support and manuscripts based on them must be accompanied by an outline of the revisions made to the original work.

Conference proceedings are not eligible unless they show strong unity of theme and editorial cohesion. Bibliographies and reference works are considered provided they fulfil a real scholarly need and have been well executed.

No funds can be provided to make translations of works, but, once completed, a translation of a scholarly book will be considered for support on its own merits.

Prospective applicants should send two copies of the complete manuscript with all contemplated revisions to the appropriate Council along with a covering letter. Manuscripts accepted for consideration will be evaluated by at least two specialist scholars in the field. Their reports are then passed on to the publications committee of the appropriate Council. The final step is action by the executive committee which decides the amount of the grant.

More detailed information may be obtained from the Aid to Publications Program, Humanities Research Council of Canada, or Social Science Research Council of Canada, 151 Slater St. Ottawa, Ontario K1P 5H3.

Accommodation

For rent, Jan. 1 to May 15, 1975; house at Yonge and Eglinton close to subway, shopping, schools; parking; three bedrooms, fully furnished, \$300 monthly including oil heating, 480-5011.

Three bedroom house for rent, from Jan. 1, 1975 for a period of 6-8 months. Fully furnished including six appliances, conveniently situated in North York, close to rapid road or public transport and to schools and shopping. Fenced garden, \$350 monthly includes heating. Phone 491-5434.

Reserved university parking site for sale, from Jan. 1, 1975 to Aug. 31, 1975. East end of Walbridge building, \$105 in total. Phone 491-5434.

EXHIBITIONS

A display of oriental rugs with books from the library collection, and a display on Frydrik Chypry (1810-1849). A 125th Anniversary tribute. To end of November. Roberts Library.

Photography by Radoslav Culjati. Main Foyer, Preliminary Building, Erindale College, Nov. 11-20.

Photographic exhibition showing the history of glass houses and man-made climate from the XVII century to the present. John Hix is a Toronto architect whose book "The Glass House" was published by the MIT Press in July. Architecture, 230 College St. Nov. 14-29. (Sponsored by the Canada Council)

Helen Redgrave exhibition - paintings of St. Ives, Cornwall; portraits, oils, watercolours, conte, gouache. Admissions Office, 310 Bloor St. W. Until Nov. 22.

"In the Eye of the Beholder"

- Exquisite jade jewellery to feathered head-dresses, this display represents the late Bronze Age through the 19th century from personal accessory to Chinese courtly circles, Third Floor, Lacquer Alcove. ROM. To March 1974.

Harvest '74 - a selection of items acquired by the Textile Department during 1974. Second floor, Textile Gallery, ROM. Tours Tuesdays at 2 p.m. To March 31.

Exhibition of historical military photographs from the University Archives, on display in the Muniment Room, Soldiers' Tower, 10 a.m. to 5 p.m. on Monday, Nov. 11, and from noon until 5 p.m. for the rest of the week.

Canadian Watercolours and Drawings - selected works of art providing a unique pictorial record of the Canadian scene from 1757 to 1930. Sigmund Samuel Canadiana Building.

Appointed & Promoted

Hart House

The Rev. William N. McKeachie has been appointed Chaplain to Hart House through a generous grant of the Campus Ministries Foundation. Mr. McKeachie will be in the House on a part-time basis and will continue his duties with the Diocese of Toronto. He replaces the Rev. James S. Cunningham who left last June.

Scarborough College

A. Jerry Kresge has been appointed professor in Chemistry. He received a B.A. (1949) from Cornell and a Ph.D. (1953) from Illinois. In 1953-54 he was a Fulbright Scholar and Postdoctoral Fellow at University College, London. In 1967-68 he was vice-chairman and then chairman of the Gordon Conference on "Chemistry and Physics of Isotopes."

Peter Richardson has been appointed associate professor and chairman of the Division of Humanities. He has a B.Arch. and B.D. from U of T, and a Ph.D. from the University of Cambridge. Since 1969 he has been at Loyola College, Montreal, teaching theology, and as assistant to the Dean of Arts, and assistant to the Academic Vice-President.

The following associate professors have been appointed:

Martin J.G. Lee (Physics) received an M.A. and Ph.D. from Sidney Sussex College, Cambridge, Eng. From 1967 to 1972 he taught at the University of Chicago.

Harvey Babak (Commerce) has degrees from the London School of Economics, Western Ontario, and Chicago. From 1962-64 he served on the Colombo Plan project responsible for establishing accounting and business programs at the Universities of Malaya and Singapore. He was a Ford Foundation Doctoral Fellow, 1964-65, and has taught at the London Graduate School of Business Studies.

Minutes of SGS Council meeting

Summary of Minutes of Council Meeting, School of Graduate Studies, held October 15:

Report of the Dean

(1) Ph.D. Employment Survey: The Dean asked for suggestions, in writing, with respect to the annual employment survey of Ph.D. graduates which will be discussed at the CAGS next month.

(2) ACAP: The Dean described briefly the work of ACAP and gave notice of his intention to give Council members a written summary of ACAP and OCGS decisions on disciplines at the University in the near future.

(3) Enrolment: An overall increase in enrolment at October 10, 1974, as compared with enrolment at the same date last year was reported. The largest increase occurred in Division II, particularly in Management Studies and Political Economy. A detailed report on enrolment, by department, is being prepared and will be sent to Council members and departments shortly.

Reports of the Associate Deans

Division I

Associate Dean Spencer reported on the Canada Council Thesis Competition. Of the twenty-six entries from Divisions I and II, twelve were forwarded to the Canada Council.

Division II

Associate Dean Zakuta presented:

(1) a recommendation that Prof. E.F. Sheffield replace Prof. D.A. Roberts on the Degree Committee of the Division; (2) a recommendation from the Degree Committee that a student without a degree be permitted to enrol as an M.A. candidate. Both recommendations were approved by Council.

Universities of Chicago, Witwatersrand and British Columbia.

Rorke B. Bryan (Geography) has a B.A. from Trinity College, Dublin, and a Ph.D. from the University of Sheffield. From 1961 to 1964 he was senior meteorologist, Adelaide Island, British Antarctic Territory, and initiated research on snow accumulation patterns and on heat penetration into the ice-cap. He has been teaching at the University of Alberta.

Among assistant professors are:

Geraldine A. Kenney-Wallace (Chemistry), is a licentiate of the Royal Institute of Chemistry, and has M.Sc. and Ph.D. degrees from the University of British Columbia. She did postdoctoral work at British Columbia and at the Radiation Laboratory, University of Notre Dame, and has taught at Yale.

Francoise Bourguignon (Economics) is a graduate of the University of Paris, and the University of Western Ontario. She has taught at the Universidad de Chile, Paris, and at the University of Orleans, and at Western.

James W. Gurd (Biochemistry) is a graduate of Mount Allison and McGill Universities. From 1969-1972, he held a Medical Research Council Post-doctoral Fellowship at the National Institute for Medical Research, Mill Hill, Eng.

John A. Rex (Sociology) appointed visiting professor, has degrees from Rhodes University, South Africa, and the University of Leeds. He has taught at Leeds, Birmingham, and held the first sociology chairs at Durham and Warwick.

John W. Isbister (Economics) is visiting associate professor. He is a graduate of Queen's and of Princeton, and has been associate professor at the University of California at Santa Cruz.

Erindale College

T.H. Adamowski, English, has been promoted to the rank of associate professor.

Deferred Recommendations in Report of Committee on Procedures & Practices of Ph.D. Oral Examinations

Council approved:

(1) the deletion of Recommendation 8 with the understanding that the sentence in the Ph.D. Calendar regulations - "Departments must ascertain in advance the willingness of the persons named to act," be strengthened in the Memorandum;

(2) Recommendation 2 with the addition of the sentence "The Associate Dean may modify the composition of the Examination Committee to fit exceptional circumstances";

(3) a new recommendation that section 10 of the Ph.D. Calendar regulations be changed to read: "At least six weeks before the examination is to be held...";

(4) a change in Recommendation 7, paragraph 1: that the words "the Chairman of the Graduate Department or his representative on the Examination Committee" be replaced with the words "the Chairman or Secretary of the Graduate Department concerned";

(5) a recommendation that, with respect to Recommendation 7, paragraph 2, a fuller explanation appear in the Memorandum as to the procedures for implementation by the Chairman of the Examination Committee.

The proposed changes in the procedures for Ph.D. Oral Examinations will not take effect until they have been approved by the Academic Affairs Committee and have been published in the Calendar.

Other Business

Council approved a recommendation from the Fellowship Committee that the Eleanor Cate Allen Fellowship, an open fellowship tenable for the first time in 1975-76, be established.

Council authorized the Dean to appoint a Committee to look for a replacement for the assistant dean whose term expires on June 30, 1975.

How all occasions did conspire against those pioneer lady MDs

Dressing and acting all her adult life as a man was how Dr. James Miranda Stuart Barry became the first woman to practise medicine in Canada, during the first half of the nineteenth century.

She is also the first of many interesting and courageous women described in a recently published book, "The Indomitable Lady Doctors", by Carlotta Hacker. Relating the tribulations of Canada's pioneer women doctors, the book was inspired by the first Chancellor of U of T, Dr. Eva Mader Macdonald, as the Golden Jubilee project of the Federation of Medical Women of Canada.

Shunning the camouflage of transvestism, Dr. Barry's successors waged open warfare with the prejudices of the age. During the middle of the last century no Ontario medical school would admit women - so the first Canadian women doctors were trained in the U.S. The licensing laws of the province, however, required registered physicians to have attended lectures at an Ontario medical

school - so the first women doctors practised illegally.

The path to equality involved many skirmishes and took many years. Subsequent chapters in the book are devoted to women doctors working in remote and wild areas of Canada, working abroad in India and China, working during the war, and undertaking medical research. An example of the latter, Dr. Maude Abbott, was a leading authority on the heart and liver in the 1890's - yet she had to have her papers read for her at medical conferences, since women were not admitted.

The book is well researched and written in a clear, if somewhat simplistic, style. It includes a useful index and bibliography as well as appendices and chapter notes, and is illustrated with clearly reproduced - often photographs. As Dr. Eva Macdonald says in the preface: "The heroines are real, and, through their stories our history comes alive in an interesting and exciting way". E.S.G.

The Indomitable Lady Doctors

Carlotta Hacker
Clarke, Irwin & Co. Ltd.
pp. 259, 21 illus., \$8.50

New eye instrument aids surgeons at TGH

The accuracy and efficiency of certain types of operations on the eye have been greatly increased by the recent development of an instrument now in use at Toronto General Hospital.

Called a VISC (vitreous infusion suction cutter), the prototype of the device being used by Dr. Clive Mortimer, U of T assistant professor of ophthalmology and ophthalmologist at TGH, was designed in Port Huron about two years ago, and first became commercially available earlier this year.

The instrument is used to remove scar tissue or blood clots from inside the eye. It consists essentially of an inner cylindrical metal tube holding a curved, rotating blade, and an outer tube through which fluid can circulate. The VISC is inserted into the eyeball of the patient, its exact positioning being determined by the use of a microscope that peers through the pupil of the eye. Damaged tissue is cut off by the rotating blade and sucked away through the outer tube.

Prior to the development of this device, says Dr. Mortimer, the surgeon had to use scissors or a blade in similar operations. Since scar tissue can be tough and difficult to cut, this method was imprecise and less satisfactory.

Although the VISC at the TGH is the only one in Toronto at present, two other Toronto hospitals will have similar instruments later this year. One potentially big use for it, says Dr. Mortimer, is in the treatment of diabetics, in whom blood sometimes collects in the eye.

Courses are offered for improved safety

The Safety Section of the Personnel Department is again offering courses for members of the University. A schedule for 1974-75, with outlines of the contents of the courses, has been sent to all deans, directors, chairmen and heads of departments by James H. Murphy, Chief Safety Officer.

The Standard First Aid course, open to all members on a voluntary basis, is 16 hours of instruction, two hours per week. For further information on registration please get in touch with Mrs. Scotchmer, 928-8787.

The College and University Safety Council - Safety Management Course is offered for all supervisory management personnel. The course is ten hours of instruction, two hours per week. For further information, please get in touch with Gary Wong, 928-8787.

Both courses can be arranged as a departmental or faculty project, or on a cooperative basis. All courses will be held in the Safety Section Training Conference facility in room 2270, Sigmund Samuel Library. Morning classes are from 10 a.m. to 12 noon; afternoon classes from 1 to 3 p.m.

News from the Press

Books published by the U of T Press during the month of September:

Michael Collie: *George Meredith: a bibliography*, 336 pages, \$25.00.

Warren Roberts: *Morality and Social Class in Eighteenth-Century Literature and Fiction*, 188 pages, \$15.00.

Margaret I. Fletcher: *The Adult and the Nursery School Child*, 2nd edition, 96 pages, \$6.50.

Ben Schlesinger: *Family Planning in Canada: a source book*, 292 pages, \$12.50 cloth, \$8.95 paper.

T.N. Günsburg & G.L. Reuber (eds.): *Perspectives on the Social Sciences in Canada*, 196 pages, \$10.00 cloth, \$3.50 paper.

V.W. Bladen: *From Adam Smith to Maynard Keynes: the heritage of political economy*, 520 pages, \$20.00 cloth, \$9.50 paper.

Denton Fox & Hermann Palsson (translators): *Gretzky's Saga*, 200 pages, \$15.00 cloth, \$3.00 paper.

Adrian E. Schaeffer: *The Physics of Flow through Porous Media*, 3rd edition, 352 pages, \$17.00.

Manoly R. Lupul: *The Roman Catholic Church and the North-West Question: a study in Church-State relations in Western Canada, 1875-1905*, 292 pages, \$15.00.

Protein from gas

Continued from Page 1

much more widespread than believed - tens of millions will probably die in Africa within the next decade."

The time will come when land alone will not be able to supply all the world's food requirements, says Prof. Wayman who is in charge of the University of Canada to develop factories that will grow protein rich microorganisms from industrial, urban and agricultural wastes. His bioengineering laboratory, one of the few in Canada, has grown such single cell protein from pulp and paper liquid wastes and from sawdust.

However, no industrial plants in Canada produce this type of protein. The Soviet Union, by contrast, has an annual production of over 150,000 tons of single cell protein mostly grown on pulp and paper wastes. Such protein can be used as feed additives or extracted and used for food and pharmaceutical purposes, says Prof. Wayman.

BULLETIN DEADLINE

The University of Toronto Bulletin is published on an *ad hoc* basis, generally once a week on Fridays. Copy should be typewritten and double-spaced. The deadline for most material is seven days before publication.

Arts and Science

PROF. JOHN J. FUREDY attended the annual meeting of the Society for Psychophysiological Research in Salt Lake City, on Oct. 26. He is organizing and chairing a symposium entitled "Conflicting viewpoints on the relation between orienting and conditional automatic responses." His contribution to the symposium is entitled "A problem for classical electrodermal and plethysmographic conditioning: Some apparently forgotten facts and fancied fables."

PROF. DANIEL E. BERLYNE, acted as co-president of the International Congress of Applied Psychology, Montreal, July 28-Aug. 2, and delivered papers on "Experimental Data on Aesthetic Appeal" and "Curiosity, Attention, and Intellectual Learning." He gave an invited address on "Cross-cultural Studies in Aesthetics" at the International Conference on Cross-Cultural Psychology, Kingston, Aug. 8. At the American Psychological Association Meeting in New Orleans, Aug. 30-Sept. 3, he delivered the presidential address for Division 1 (General Psychology), assumed office as President of Division 10 (Psychology and the Arts), and participated in a panel discussion on "Psychological Aesthetics at this point in time: Its Current Tasks, Its Contribution to General Psychology."

PROF. J. KRAMES, T. ALLOWAY and P. PLINER have published a book entitled "Advances in the Study of Communication and Affect: I. Nonverbal Communication", N.Y. Plenum Press, 1974. This book is the proceedings of the third annual *Erindale College Symposium on Communication and Affect*, held on the Erindale campus in March 1973. The proceedings of the fourth symposium held in March 1974 are currently in press as volume 2 in the series. The proceedings of the first two symposia were published by Academic Press. The subtitle for the fifth symposium to be held in March 1975 will be "Development of Social Attachment in Young Mammals."

PROF. R. MORTON SMITH attended the meetings of the Mid-Western Branch of the American Oriental Society at Madison, Wis., and on Oct. 14 read a paper on "Ancient Indian names."

DR. N. MROSOSVSKY spent his one year, July 1973 to June 1974, sabbatical leave at Yale University where he gave various seminars and talks. He also talked at Columbia University on "Body Weight Regulation in the Hypothalamus" and gave a seminar at Rockefeller University on the same subject.

Dentistry

MRS. S. CLARK, president of the Canadian Dental Hygienists Association and Miss A. Wood, treasurer, and convention registration chairperson actively participated in the Hygienists program of the Canadian Dental Association Convention held from Oct. 6 to 9.

DR. M. JACKSON moderated a discussion on Oct. 9 between Miss Dixie Scoles, University of Montreal and Mrs. Marie Forgy, University of Manitoba. The topic for discussion was "Educating the Dental Auxiliary - What Comes Next?"

DR. G.S. BEAGRIE attended the 62nd Annual World Dental Congress of the Federation of Dental International, London, Eng. from Sept. 8 to 14. He attended the annual meeting of the College of Dentists of Canada held in Toronto on Oct. 3 and 4 and the Combined Specialties Conference in Toronto from Oct. 3 to 6, sponsored by the Royal College of Dentists of Canada. Dr. Beagrie attended the C.D.A. Convention in Toronto from Oct. 6 to 9, and chaired a scientific symposium on "Dental Pain."

DR. D.C. SMITH attended the 62nd Dental Manpower Development Group, which held its first meeting in Ottawa on Sept. 24 to develop parameters and methodologies for studies into dental manpower requirements in Canada. Dr. Lewis presented a paper describing the activities of

STAFF NOTES

the Faculty's Dental Health Care and Epidemiology research unit at a workshop for public health dentists from across Canada on Oct. 3 at Kimberley, Ont.

DR. G.W. THOMPSON presented a paper entitled "Methods of Quantifying Cranio-Facial Data" to the Canadian Society of Orthodontists on Oct. 6.

DR. J.E. SPECK gave an extramural lecture to the Muskoka-Simcoe Dental Society on Sept. 21 on the subjects "Drug Therapy" and "General Periodontics."

DR. J.H.P. MAIN attended the F.D.I. Congress in London, Eng. from Sept. 7 to 11. He has been appointed chairman of the Membership Committee of the American Association for Dental Research.

DR. M. TRUVERT attended a workshop on "Diet, Nutrition and Periodontal Disease," organized by the A.S.P.D. at Sun Valley, Idaho, from Aug. 4 to 7.

DR. A.B. HORD gave an extramural lecture to the Stratford and District Dental Society on Sept. 27 on the subject "Current Developments in Operative Dentistry."

DR. G. NIKIFORUK participated in the ACFD/AFDC 8th Biennial Research and Education Conference in Nova Scotia, June 17-21. Dr. Nikiforuk presented a paper entitled "Oral-Dental Aspects of Hard Tissue Metabolic Defects" at the Combined Specialties Conference on Oct. 4 and hosted an informal meeting of the Deans of the Canadian Faculties of Dentistry held in the Conference Room of the Faculty on Oct. 7.

DR. C.D. TORBIECK presented a course on the Biological Principles of Endodontics to a combined meeting of the Sociedad Peruana de Endodoncia and the Departamento de Odontologia Universidad Peruana Cayetano Heredia in Lima, Peru, from July 2 to 5, and to a combined meeting of the Associação Brasileira de Endodontia and the students and faculty of the Guanabara State University Dental School in Rio de Janeiro from July 11 to 13.

Research News

Evaluative screening of new drug-type discoveries

Canadian Patents and Development Ltd. (CPDL) has received an award from Bio Research Laboratories Ltd. of Pointe Claire, Que., for evaluative screening of new drug-type discoveries. Such discoveries would often relate to organic molecule formations which might have drug-use potential.

The information form which is to be used by a scientist who wishes to make use of the evaluative screening procedure is available from ORA, Room 115, Simcoe Hall, or call 928-2163.

On Nov. 14, Dr. Ferdinand Fried of Bio Research Labs. will be on campus to meet with interested faculty members. Interested persons should contact their chairman, dean or ORA.

Ph.D. Orals

Monday, November 11

Mrs. Barbara Brevier, Department of Educational Theory, "A Psychological Comparison of Two-Generation and Three-Generation Families". Thesis supervisor: Prof. Donald G. Ogston. Round Room, Massey College, 10 a.m.

Thursday, November 14

Edwin Inrig, Department of Mathematics, "Singularity in General Relativity". Thesis supervisor: Prof. D.K. Sen. Room 108, 16 Hart House Circle, 3 p.m.

Friday, November 15

David Alvin Mine, Department of Political Economy, "Social and Political Theory in Modern Architecture: A Study of Frank Lloyd Wright and Le Corbusier". Thesis supervisor: Prof. P.H. Russell. Round Room, Massey College, 2 p.m.



"Comus" — a Maske by John Milton, with the original music of Henry Lawes, is being performed at Seeley Hall, Trinity College, at 8 p.m. from Tuesday, Nov. 12 to Saturday, Nov. 16. Admission is \$1.50, for students \$1. Here are Megan Hutchinson, at rear, playing the willow tree, and Anne McWhir, the lady. Director is Jim Miller, of Trinity.

COMING EVENTS

Saturday 9 November

LECTURE — "Money: Whence It Came, Where It Went". Dr. John Kenneth Galbraith, Paul M. Warburg Professor of Economics, Harvard University. Convocation Hall, 8.15 p.m. (Royal Canadian Institute)
SYMPOSIUM: Medicine — "Biochemic Biochemistry of Disease". Mount Sinai Hospital Auditorium, 9 a.m. to 5 p.m. (Toronto Biochemical and Biophysical Society)

Sunday 10 November

MUSIC — Hart House Sunday Evening Concert with Peggie Sampson, viol., and Michael Kearns, harpsichord. Great Hall, 8 p.m. Tickets free to members from the Hall Porter's desk.
MUSIC — Music from the Baroque Period by Metamorphosis 4, with Monica Gaylord, piano; Sandra Watts, oboe, John Courtney, bassoon, and Fred Halgedahl, violin. Meeting Place, Scarborough College, 3.30 p.m. free.

Monday 11 November

MUSIC — Organ recital by John Watts, Convocation Hall, 5.05 p.m.
SEMINAR: Medicine — "Control of Nitroene Synthesis during Cell Cycle and Differentiation". Dr. Corrado Baglioni, Department of Biology, State University of New York at Albany, 417 Best Institute, 4 p.m. (Banting and Best)
SYMPOSIUM — "The Future." Performance of Creation II production of "Aces Wild" by Tom Hendry, 12 noon; panel, "Future and futurology." Prof. Robert K. Logan moderator, 4-6 p.m. New College, Wilson Hall Common Room. (New College and Club of GNU)

Tuesday 12 November

SYMPOSIUM — "The Future." Panel, "Will technology allow us to have a future?" Prof. John Sander moderator, 4-6 p.m. New College, Wilson Hall common room (New College and Club of GNU)
LECTURE: Literature — "Autobiography and Literature: Reflections on Thomas Mann's *Death in Venice*". Prof. Erich Heller, Northwestern University, Evanston. BCD Brennan Hall, 4 p.m. (Graduate German)
LECTURE: Medicine — "Surgical Neurology of the Limbic System". Dr. R.L.G. Newcombe, Brook General Hospital, London, Eng. 2172 Medical Sciences Building, 5 p.m. (Neuroscience Institute and Toronto Neurological Society)
WORKSHOP: Public Finance — "Indexing the Tax System for Price Changes: Issues and Experience". John Bossoms, Institute for Policy Analysis. Front Conference Room, 150 St. George St., 4-6 p.m. (Policy Analysis)
COLLOQUIUM: Computer — "The Role of Lattices in Mathematics and Computer Science". Prof. Garrett Birkhoff, Department of Mathematics, Harvard University, 217 Sidney Smith Hall, 4 p.m. (Mathematics, Computer Science, IHPS)
DRAMA — "Comus" — A Maske by John Milton, with original music of Henry Lawes. Seeley Hall, Trinity College, 8 p.m. Tuesday, Nov. 12 to Saturday, Nov. 16. Admission \$1.50, students \$1.

Wednesday 13 November

SEMINAR: Computer — "Paralleling the Evaluation of Arithmetic Expressions". Prof. T. Winograd, IBM T.J. Watson Research Center, Yorktown Heights, 202 McLennan Physical Laboratories, 4 p.m. (Computer Science)
RADIO — "Islam — Faith and Practice". CJRT-FM (91.1) 10 a.m. and 7.30 p.m. (Islamic Studies and Open College)

COLLOQUIUM: Psychology — "Nest Material and Food as Reinforcers in Mice: How General are the Principles of Operant Behaviour?". Dr. Tim J. Roper, Department of Psychology, University of Oregon, 2117 Sidney Smith Hall, 4 p.m. (Psychology and SGS)
LECTURE — "The Hittites". Prof. Harry Hoffner, Illinois, Croft Chapter House, U.C., 2-4 p.m. (SGS and Near Eastern)
MUSIC — Wednesday Night with Jane Croft, piano. Music Room, Hart House, 8 p.m.
SYMPOSIUM — "The Future." Panel, "Freedom and education in the future." Prof. M. Wall moderator, 4-6 p.m. New College, Wilson Hall common room; dinner, Rt. Hon. Roland Michener, guest of honour, followed by panel, "The art of the future." Bruce Rogers of CBC moderator, 6-9 p.m. (New College and Club of GNU)

Thursday 14 November

LECTURE — "Education and Literacy". Dr. Robertson-Davies. OISE auditorium, 8 p.m. (OISE)
LECTURE — "The Pharmacology of Drug Dependence" series, "Clinical Pharmacology of Alcohol". Dr. Stuart MacLeod, Addiction Research Foundation. Auditorium, 33 Russell St. 12 noon to 1.30 p.m. (Addiction Research Foundation)
COLLOQUIUM: Physics — "Critical Phenomena in Physical and Biological Systems". Prof. H.E. Stanley, Massachusetts Institute of Technology, 102 McLennan Physical Laboratories, 4.10 p.m. (SGS and Physics)
TOUR — Guided tour of the Oriental Rug exhibit by Max Allen, Exhibition Chairman, Oriental Rug Society, Roberts Library, 7.30 p.m. Also on Nov. 27.
COLLOQUIUM: History of Science — "Scientists and the Adversary Process". Prof. S.A. Lakoff, U of T, 597 Sidney Smith Hall, 4 p.m. (IHPS)
SYMPOSIUM — "The Future." Panel, "1984 is 10 years away." Prof. Vivian Rakoff moderator, 4-6 p.m. Film, Mark Slade's "The Language of Change," 8 p.m. New College, Wilson Hall common room (New College and Club of GNU)
THEATRE — Madame Suria Saint-Denis, Consulting Director, Juilliard School of Drama, will conduct a theatre-dialogue on masks, acting improvisation, director's training and the work she and the late Michel Saint-Denis contributed to the National Theatre School, Upper Library, Massey College, 4.15 p.m. (SGS and Drama Centre)
THEATRE — "Tis Pity She's a Whore" by John Ford. Hart House Theatre, 8.30 p.m. Nov. 14-23. Tickets \$3, students \$1.50 (Drama Centre)
FILM — Kenneth Clark's *The Romantic Rebellion* series, "Francisco Goya". Hart House Art Gallery, 12.15, 1.15 and 7.30 p.m.

Friday 15 November

SYMPOSIUM — "The Future." Panel, "Haves and have nots in the politics of the future." Rev. E. Frerichs, moderator, 3-5.30 p.m. New College, Wilson Hall common room. (New College and Club of GNU)
LECTURE — "Policy Simulations Using Econometric Models: A Critique." Robert Lucas, Professor of Economics, Carnegie-Mellon University and Ford Foundation Visiting Research Professor. Coach House Conference Room, 150 St. George St. 3-5 p.m. (Policy Analysis)
LECTURE: Medieval — "Religious Persecution in the Middle Ages: The Jews of Medieval England". Prof. R.B. Dobson, Department of History, University of York, England. Upper Library, Massey College, 4.15 p.m. (Medieval Studies, SGS)
LECTURE — "The Hermeneutics of Reading" series, "Theory and History of Allegory". Tzvetan Todorov, Centre National de la Recherche Scientifique, Paris. Theatre and Conference Room, Library Sciences, 4.30 p.m. (Comparative Literature and Graduate English)

Saturday 16 November

LECTURE — "The Truth, the Whole Truth and ...". Dr. Ralph S. Mills. Convocation Hall, 8.15 p.m. (Royal Canadian Institute)
DRAMA — Comus — A Maske by John Milton, with the original music of Henry Lawes. Seeley Hall, Trinity College, 8 p.m. Tuesday, Nov. 12 to Friday, Nov. 16. Admission \$1.50, students \$1.
PARTY — Children's Santa Claus Parade Party. Faculty Club, 10 a.m. Restricted to members and their children. Please reserve by Nov. 8.

Sunday 17 November

MUSIC — Carolyn Gundy, violinist, accompanist, Carol Birch, piano. Meeting Place, Scarborough College, 3.30 p.m.

Human rights to be examined at three day seminar in Toronto

President John R. Evans will be a participant in a closed session of a three-day seminar in Toronto of the Canadian Human Rights Foundation. The closed session will endeavour to advance plans for examination of human rights legislation in Canada.
 During the seminar, two international figures will address dinner meetings and a federal minister will speak at a luncheon. The events are being held at the Royal York Hotel.

Niall MacDermott, Secretary-General of the International Commission of Jurists, Geneva, is to speak on Nov. 21. Mr. MacDermott, while a minister in the British Labour government from 1962 to 1970, was in charge of the parliamentary

commission that established the British ombudsman.

The speaker at dinner on Nov. 22 will be Mrs. Helvi Sipilä, Assistant Secretary-General for Social Development and Humanitarian Affairs of the United Nations. Mrs. Sipilä is a former judge in Finland and president of the International Federation of Women Lawyers.

At luncheon on Nov. 22, the Hon. Hugh Faulkner, Secretary of State for Canada, will speak about the government's concern with human rights.

A limited number of tickets for guests are available (\$12.50 each for dinner, \$10 for luncheon) from John E. Thompson (766-5551) or from Walter S. Tamopolky, Osgoode Hall Law School, (667-3466).

U of T Press committee invites comments

The University of Toronto Press Committee will hold a public meeting on Wednesday, Nov. 13, at 4 p.m., in the Council Room of the Pharmacy Building, Russell St. at Huron.

All members of the University community interested in commenting on the policy and procedures of the Press — in-

cluding its publishing, printing, and bookstores operations — are urged to present their views in person to the Committee.

Anyone wishing to make a submission to the Committee should get in touch with Michael Dafeo, Secretary, University of Toronto Press Committee, telephone 928-4980.